

New and known thienyl urea or isourea derivs. - used as animal growth promoters

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Abstract (Basic): DE 3529247 A

(A) Thienyl (iso)ureas of formula (Ia) are new  $n = 3-6$ ;  $A = N(R_4)CONR_5R_6$  or  $N(R_4)C(OR_5)=NR_6$ ;  $R^3 = (a)$  CN, COOR<sup>7</sup>, CONR<sup>8</sup>R<sup>9</sup> or COR<sup>10</sup> when  $n = 3, 5$  or  $6$ , or  $(b)$  COOMe, (2-4C alkenyloxy)carbonyl, CONR<sup>8</sup>R<sup>9</sup> or COR<sup>10</sup> when  $n = 4$ ;  $R_4 = H$  or alkyl;  $R_5$  and  $R_6 = H$ , opt. substd. alkyl, cycloalkyl, alkenyl, opt. substd. aryl or heteroaryl;  $R_7 = H$ , opt. substd. alkyl, cycloalkyl, alkenyl or opt. substd. aryl;  $R_8 = H$ , alkyl or cycloalkyl;  $R_9 = H$ , opt. substd. alkyl or opt. substd. aryl;  $R_{10} =$  opt. substd. alkyl or opt. substd. aryl.

(B) Thienyl isocyanates of formula (II) are also new, except for 3-methoxycarbonyl -2-thienyl isocyanate;  $R_1$  and  $R_2 = H$ , halogen, NO<sub>2</sub>, CN, alkoxy, alkylthio, haloalkoxy, haloalkylthio, alkoxyalkyl or opt. substd. alkyl, acyl, aroyl, or aryl, or  $R_1+R_2$  forms an opt. substd. satd. or unsatd. carbocyclic ring opt. with a carbonyl function;  $R^3 =$  COOR<sup>7</sup>, CONR<sup>8</sup>R<sup>9</sup> or COR<sup>10</sup>;  $R^7 = H$ , opt. substd. methyl, cycloalkyl, 2-4C alkenyl or opt. substd. aryl.

USE - Use of thienyl (iso)ureas of formula (I) is 'animal productivity promoters' (specifically growth promoters) is claimed.  $R^3 =$  CN, COOR<sup>7</sup>, CONR<sup>8</sup>R<sup>9</sup> or COR<sup>10</sup>. (79pp Dwg.No.0/0)

Abstract (Equivalent): EP 202538 B

Use of thienylureas or -isoureas of the formula (I) in which A represents the radicals (Ia) and (Ib)  $R_1$  represents hydrogen, halogen, nitro, CN, alkoxy, alkylthio, halogenoalkoxy, halogenalkylthio, alkoxyalkyl or optionally substituted radicals from the group comprising alkyl, acyl, aroyl, and aryl,  $R_2$  represents hydrogen, halogen, nitro, CN, alkoxy, alkylthio, halogenoalkoxy, halogenalkylthio, alkoxyalkyl or optionally substituted radicals from the group comprising acyl, aroyl, alkyl and aryl, or  $R_1$  and  $R_2$ , together with the adjacent C atoms, represent an optionally substituted saturated or unsaturated carbocyclic or heterocyclic ring, which can optionally carry a carbonyl function,  $R_3$  represents the radicals CN, COOR<sup>7</sup>, COONR<sup>8</sup>R<sup>9</sup> or COR<sup>10</sup>,  $R_4$  represents hydrogen or alkyl,  $R_5$  represents, optionally substituted alkyl, cycloalkyl, alkenyl, optionally substituted aryl or heteroaryl,  $R_6$  represents hydrogen, optionally substituted alkyl, cycloalkyl, alkenyl, optionally substituted alkyl, cycloalkyl, alkenyl, or optionally substituted aryl,  $R_8$  represents hydrogen, alkyl or cycloalkyl,  $R_9$  represents hydrogen, optionally substituted alkyl or optionally substituted aryl and  $R_{10}$

represents optionally substituted alkyl or optionally substituted aryl,  
as growth-promoting agents for animals. (33pp)